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(*Thuja occidentalis* L. Smaragd),

(*Picea pungens* Engelm. Glauca),

(*Picea abies* L.

Nidiformis),

(*Juniperus scopulorum* Sarg. Blue Arrow),

(*Berberis thunbergii* DC. Dart's Red Lady),

(*Cotoneaster lucidus* Schlecht.),

(*Acer*

platanooides L. Drummondii,

(*Crataegus x media* Paul's

Scarlet);

(*Forsythia intermedia* Golden Time).

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(Picea pungens Engelm. Glauca), (Picea abies L.
Nidiformis), (Juniperus scopulorum Sarg. Blue Arrow),
(Berberis thunbergii DC. Dart's Red Lady),
(Cotoneaster lucidus Schlecht.), (Acer platanoides L.
Drummondii), (Crataegus x media Paul's Scarlet);
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ABSTRACT

Diploma work 61 p. 9 fig. 15 tab., 37 sources.

MICROPROPAGATION, ORNAMENTAL SHRUBS AND TREES,
AUXIN, BRASSINOSTEROID, ROOTING

Objects of research: *Thuja occidentalis* (*Thuja occidentalis* L. Smaragd), Blue spruce (*Picea pungens* Engelm. Glauca), Norway spruce (*Picea abies* L. Nidiformis), Rocky juniper (*Juniperus scopulorum* Sarg. Blue Arrow), *Berberis thunbergii* (*Berberis thunbergii* DC. Dart's Red Lady), Hedge cotoneaster (*Cotoneaster lucidus* Schlecht.), *Acer platanoides* (*Acer platanoides* L. Drummondii), Hawthorn (*Crataegus x media* Paul's Scarlet); *Forsythia intermedia* (*Forsythia intermedia* Golden Time).

Objective: To review and optimization of methods of vegetative cloning, testing as stimulants rooting brassinosteroids and their comparison with auxin commercially available, analyze their effect on the rooting of ornamental trees and shrubs.

Methods: physiological.

The study identified a number of factors affecting the rooting of ornamental trees and shrubs. Optimum conditions for rooting greenhouses are to maintain a constant temperature and humidity. The findings point to the importance of further study of the effect of treatments auxins and brassinosteroids at vegetative cloning of trees and shrubs.

The approach vegetative cloning of ornamental trees and shrubs using stimulants of growth and development of plants.